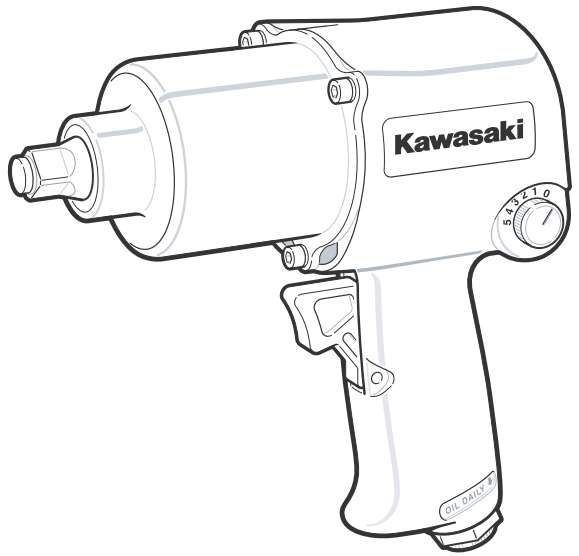
MODEL
#840781

Kawasaki™

1/2 INCH H. D. AIR IMPACT WRENCH
INSTRUCTION MANUAL



THIS MANUAL CONTAINS IMPORTANT INFORMATION REGARDING SAFETY, OPERATION, MAINTENANCE AND STORAGE OF THIS PRODUCT. BEFORE USE, READ CAREFULLY AND UNDERSTAND ALL CAUTIONS, WARNINGS, INSTRUCTIONS AND PRODUCT LABELS. FAILURE TO DO SO COULD RESULT IN SERIOUS PERSONAL INJURY AND/OR PROPERTY DAMAGE.

IF YOU SHOULD HAVE ANY QUESTIONS OR EXPERIENCE A PROBLEM WITH YOUR ALLTRADE PRODUCT, DO NOT RETURN THIS PRODUCT TO THE STORE. PLEASE CALL OUR CUSTOMER SERVICE DEPARTMENT AT **1-800-590-3723**. BEFORE YOU CALL, HAVE THE FOLLOWING INFORMATION AVAILABLE: MODEL No., DATE PURCHASED AND STORE LOCATION. AN ALLTRADE REPRESENTATIVE CAN RESOLVE YOUR PROBLEM OVER THE PHONE. IF YOU WOULD LIKE TO MAKE A SUGGESTION OR COMMENT, GIVE US A CALL OR EMAIL US AT: INFO@ALLTRADETOOLS.COM. YOUR FEEDBACK IS VITAL TO US.

FOR CUSTOMER SERVICE
POUR LE SERVICE APRÉS VENTE OU DU CONSOMMATEUR
PARA EL SERVICIO PARA EL CONSUMIDOR

1-800-590-3723

Printed in China

Kawasaki
OFFICIAL LICENSED PRODUCT

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840781 – 1/2 in. H. D. Air Impact Wrench_ Rev. 9/17/08

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CONGRATULATIONS!

Thanks for choosing this product. At Alltrade, our aim is to provide you with quality products at an affordable price, and we want you to be totally satisfied with your product and our Customer Service. If any help and advice is needed, please contact us at 1-800-590-3723. Properly cared for, this tool will give you many years of satisfaction.

INTENDED USE

This tool is intended for consumer use only.

GENERAL SAFETY

⚠ WARNING **READ AND UNDERSTAND ALL INSTRUCTIONS.** Failure to follow all instructions listed may result in serious personal injury.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

RECOGNIZE SAFETY SYMBOLS, WORDS AND LABELS

The safety instructions provided in this manual are not intended to cover all possible conditions and practices that may occur when operating, maintaining and cleaning tools.

Always use common sense and pay particular attention to all the **DANGER**, **WARNING**, **CAUTION** and **NOTE** statements of this manual.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER **DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING **WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION **CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION **CAUTION** used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTE **NOTE** provides additional information that is useful for proper use and maintenance of this tool. If a NOTE is indicated make sure it is fully understood.

IMPORTANT SAFEGUARDS

⚠ DANGER

WARNING: Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products, and arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

GENERAL SAFETY RULES

⚠ CAUTION

Keep work area clean and well lit. Messy areas and cluttered workbenches invite personal injury and/or property damage. Clear all work areas of unnecessary tools, debris, furniture, etc.

Make sure the work area is well ventilated. Never operate in an enclosed area.

Do not place objects on top or against the tool.

Handle correctly. Always operate according to the instructions provided. Never allow the tool to be operated by children, individuals unfamiliar with its operation or unauthorized personnel.

Keep children and visitors away. All children should be kept away from the work area. **DO NOT** let children handle the tool. Maintain a safe distance for any person near the work area.

Childproof the workshop. The use of master switches and padlocks is highly recommended. Remove starter keys where applicable.

Stay alert, watch what you are doing, and use common sense. Do not stand on tool. Do not use tool while tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating the tool may result in serious personal injury.

⚠ CAUTION

Operating any tools or equipment under the influence of drugs, alcohol, or medication can cause personal injury to yourself and others.

Use the right tool. Use tools properly and for their intended task. Do not force a small tool to do the job of a heavy-duty tool. Using the right tool to do the right job will make doing the job safer.

Always make sure the tool is in the OFF position when making adjustments, changing parts, or performing any maintenance.

Service must be performed only by qualified repair personnel. Service or maintenance by unqualified personnel may result in a risk of injury.

Do not use the tool if the trigger switch does not turn it "ON" or "OFF". A tool that cannot be controlled with the switch is dangerous and must be repaired.

Store all maintenance tools away from the immediate area before turning ON the tool.

Do not overreach. Proper footing and balance is a must at all times while using tools. Unstable support may lead to personal injury. Do not stand on the tool. Serious injury could result if the tool tips over or you accidentally contact tool.

When using accessories, consult the owner's manual provided by the manufacturer. The use of improper accessories may cause risk of injury to yourself and others.

Keep protective guards in place and in proper working condition.

Maintain tools and equipment with care. They will function better and more safely when kept clean and in good working condition. Keeping the tool clean, dry, and free of grime will add to its life and performance.

Do not use the tool for applications other than specified.

SERVICE

⚠ CAUTION

Tool service must be performed only by qualified repair personnel. Service or maintenance by unqualified personnel could result in a risk of injury.

When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of shock or injury.

SPECIFIC SAFETY RULES AND/OR SYMBOLS

⚠ CAUTION

Maximum operating pressure is 90 PSI. Never use higher air pressure to increase the output of the Air Impact wrench. Overloading will drastically shorten the life of all internal parts.

Disconnect Air Impact wrench from power air supply before servicing or changing accessories.

IMPORTANT SAFETY RULES FOR AIR TOOLS

⚠ CAUTION

BEFORE OPERATING YOUR AIR TOOL, READ THE FOLLOWING INFORMATION:

Always inspect, maintain and operate in accordance with ANSI safety code for portable air tools (ANSI B186.1) and other local safety codes and regulations.

Do not operate this tool over 90 PSI air pressure at the tool.

Always wear safety goggles when operating this tool.

Always disconnect this tool from the air supply before installing, adjusting or removing any accessory in this tool, or before performing maintenance.

Always use a dust mask in dusty conditions.

User and bystanders must wear suitable hearing protection when this tool is in use.

Do not overreach. Proper footing and balance is a must at all times while using tools. Unstable support may lead to personal injury.

Do not carry any air tool by the hose. Keep air hose away from heat and sharp objects.

Continuous use of vibrating air tools by susceptible users may cause damage to hands.

Always wear gloves and protective clothing to help prevent injury from flying particles.

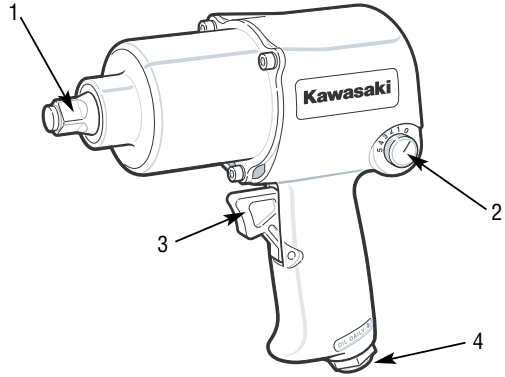
Secure work. When possible, the use of clamps or a holding device is much safer than holding the work piece with your hands.

Always lubricate and maintain tool in safe operating conditions.

FUNCTIONAL DESCRIPTION

CONTROLS AND COMPONENTS:

1. 1/2 in. Anvil
2. Reverse Valve Switch (Forward/Reverse/RPM & Torque Adjust)
3. Trigger Switch
4. 1/4 in. Air Inlet



ASSEMBLY

⚠ WARNING

Always disconnect this tool from the air supply before installing, adjusting or removing any accessory in this tool, or before performing maintenance. Failure to do so could result in injury.

Check the speed rating on all accessories. Accessories must never be run at a higher speed than they were designed to handle.

Connect the impact wrench to air source (90 PSI max pressure) by connecting air hose to air inlet in the bottom of the impact wrench handle. Tug on the hose gently to make sure it is secured to the impact wrench.

OPERATION

The tool features an air regulator (at the top back of the tool) allowing you to vary the amount of torque exerted on the nut or bolt you are working on. Setting 0 is the lowest setting and Setting 5 is the highest setting and provides the biggest torque and speed.

LOOSENING:

1. Attach the correct size socket to the anvil.
2. Set the compressor's pressure regulator to 90PSI. Do not set the compressor's outlet regulator above 90PSI.
3. Connect the tool to the air compressor's hose. If leakage is detected, disconnect the air hose and fix it correct before use.
4. Place the socket over the nut to loosen.
5. Grip the tool firmly. Press the REVERSE Valve rightward. Press the trigger to start the tool.

⚠ CAUTION Make sure the nut or bolt can withstand the impact wrench's working torque.

NOTE

- If the tool cannot loosen the nut, DO NOT raise the outlet pressure of the air compressor.
- If the tool's air regulator is set in a low setting, you may raise the setting and try again. If the tool's air regulator is already set on 5 setting, do not continue attempts to loosen the nut with the tool. Use other appropriate tools and methods to loosen the nut.
- When the nut is removed, stop the tool by releasing the trigger and remove the tool from the nut. Remove the nut from the socket if needed.

TIGHTENING:
The working torque of the impact wrench is 275 feet/lbs. Make sure that the nut or bolt you are using the tool to tighten can withstand the rated torque.

1. Tighten the nut as far as you can by hand.
2. Place the socket on the nut. Press the REVERSE Valve leftward. Press the trigger to start the tool.

NOTE

- If the tool stalls while tightening, DO NOT raise the outlet pressure of the air compressor above 90PSI.
- If the tool's air regulator is set on a low setting, it may be raised and try again. If the nut will not tighten at the maximum setting, do not continue attempts to tighten the nut. Use other appropriate tools and methods to tighten the nut.
- When the nut has been tightened, remove the tool and socket. Do not overtighten. If available, check the recommended torque specifications for the nut. You should use a torque wrench to torque the nut after using the impact wrench.

MAINTENANCE

AIR SUPPLY
Always use clean dry air as excessive moisture will lower the available torque and rust the interior moving parts. Make sure all hoses and fittings are of the recommended size and be sure the units are not used with less than or more than the recommended pressure at the tool! (90 PSI)

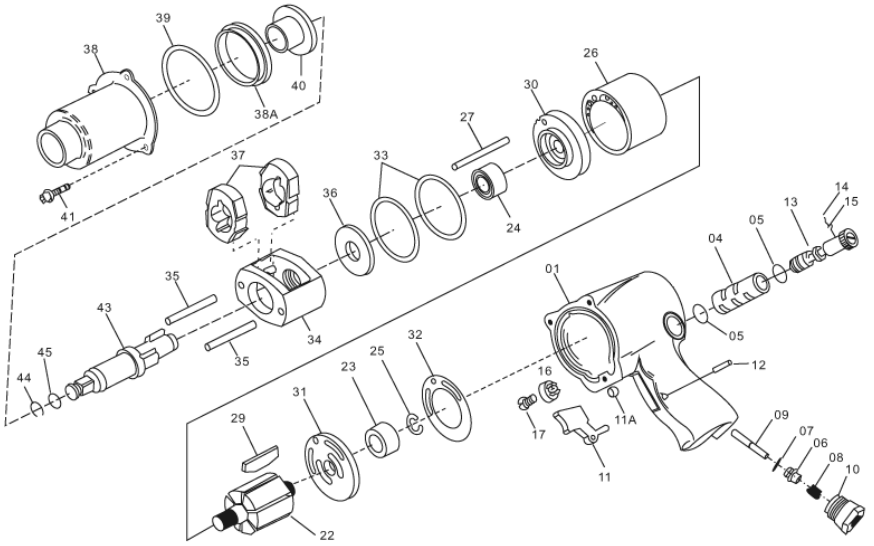
LUBRICATION
Proper lubrication of this air tool is critical to the operation and life of the unit. Units can be severely damaged or have excessive wear placed on working parts if not lubricated. We recommend the use of Marvel Mystery Oil which is available at most auto parts locations. The tool should be lubricated each time it is used. During daily prolonged use, lube heavily 3 or 4 times during the day. **Always add oil through Air inlet.**

MAINTENANCE
Daily – before putting the tool in operation, disconnect air hose and pour about one tablespoonful of Marvel Mystery Oil into tool air inlet. Blow out air line to clear it of accumulated dirt and moisture. Connect tool and operate tool to allow oil to be carried to the interior of the tool.

ACCESSORIES

Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another tool.

PARTS DIAGRAM



PARTS LIST

NO.	PART NO.	DESCRIPTION	QTY.
1	840781-1	Motor Housing	1
4	840781-4	Reverse Valve Bushing	1
5	840781-5	Reverse Valve Bushing Seal	2
6	840781-6	Throttle Valve Assembly	1
7	840781-7	Throttle Valve Face	1
8	840781-8	Throttle Valve Spring	1
9	840781-9	Throttle Valve Stem	1
10	840781-10	Air Strainer Assembly	1
11	840781-11	Trigger	1
11A	840781-11A	Plug	1
12	840781-12	Trigger Pin	1
13	840781-13	Reverse Valve	1
14	840781-14	Reverse Valve Detent Ball	1
15	840781-15	Reverse Valve Detent Spring	1
16	840781-16	Reverse Valve Knob	1
17	840781-17	Reverse Valve Knob Screw	1
22	840781-22	Rotor	1
23	840781-23	Rear Rotor Bearing	1
24	840781-24	Front Rotor Bearing	1
25	840781-25	Rear Rotor Bearing Retainer	1
26	840781-26	Cylinder	1
27	840781-27	Cylinder Dowel	1
29	840781-29	Vane Packet	6
30	840781-30	Front End Plate	1

PARTS LIST

NO.	PART NO.	DESCRIPTION	QTY.
31	840781-31	Rear End Plate	1
32	840781-32	End Plate Gasket	1
33	840781-33	Motor Clamp Washer	2
34	840781-34	Hammer Frame Assembly	1
35	840781-35	Hammer Pin	2
36	840781-36	Hammer Frame Rear Washer	1
37	840781-37	Hammer	2
38	840781-38	Hammer Case	1
38A	840781-38A	Hammer Case Pilot	1
39	840781-39	Hammer Case Gasket	1
40	840781-40	Hammer Case Bushing	1
41	840781-41	Hammer Case Cap Screw	3
43	840781-43	Standard Anvil	1
44	840781-44	Socket Retainer	1
45	840781-45	Retainer O-Ring	1

SPECIFICATIONS

SPECIFICATIONS	
No Load Speed	7,000 RPM
Max. Torque	380 ft-lb (515 N-M)
Square Drive Size	1/2 in. (12.7 mm)
Air Consumption	5-10 CFM (0.14-0.28m3/min)
Air Inlet	1/4 in. (6.35 mm) NPT
Recommended Air Pressure	90 PSI
Suggested Air Hose Size	3/8 in. (9.52 mm)

1 YEAR LIMITED WARRANTY

Express and Exclusive Limited Warranty to Original Retail Buyer

Alltrade Tools LLC (hereinafter "Alltrade") expressly warrants to the original retail purchaser of the accompanying KAWASAKI™ air tool and no one else all parts of the product (except those parts referred to below which are specifically excluded from such warranty (see Exclusions)) to be free from defects in materials and workmanship for a period of one year from original date of purchase.

SPECIAL WARRANTY NOTE FOR COMMERCIAL OR RENTAL USE: The above warranty for this Kawasaki™ air tool shall be effective for only 90 days from the original date of purchase if this tool is used for any **COMMERCIAL OR RENTAL PURPOSE.**

The date of purchase shall be the date of shipment to the original purchaser, or the date the original purchaser took possession, custody or control of the product, whichever occurred first. This warranty shall be null and void if the product or any component thereof is modified or altered. This warranty does not apply to any other product and/or component thereof manufactured or distributed by Alltrade, and does not apply to products and/or components thereof designed, manufactured and/or assembled by others, for which Alltrade makes no warranties whatsoever. **THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.**

Warranty Performance

By purchasing the product, purchaser expressly acknowledges and agrees that their sole and exclusive remedy under this warranty shall be strictly limited to the repair or replacement of any covered nonconforming items or parts thereof provided that any such nonconforming item and/or part is promptly returned to Alltrade's facility postage pre-paid and insured (address: ALLTRADE Warranty Claims & Repair, 1431 Via Plata, Long Beach, CA 90810, Attn: Customer Service #1-800-590-3723) within the applicable warranty period, with a written request by purchaser that Alltrade repair and/or replace the nonconforming item and/or part. We recommend that you keep the original product packaging in the event you need to ship the unit. We suggest the package be insured against loss or in transit damage. When sending your product include your name, address, phone number, dated proof of purchase (or copy), and a statement about the nature of problem. Warranty coverage is conditioned upon purchaser furnishing Alltrade with adequate written proof that they are the original purchaser and of the original purchase date. Parts returned, freight prepaid and insured, to Alltrade's facility (see above address) will be inspected and, at Alltrade's option, repaired and/or replaced free of charge if found to be defective and subject to warranty. Alltrade retains the sole discretion to determine whether any item or part is nonconforming and, if so, whether the item and/or part will be repaired and/or replaced. If the unit is repaired, new or

reconditioned replacement parts may be used. If Alltrade chooses to replace the product, it may replace it with a new or reconditioned one of the same or comparable design. The repaired or replaced unit will be warranted under the terms of the remainder of the warranty period. Typically, a defective product that is returned within the first 30 days after the purchase date will be replaced; for items returned after the first 30 days and within the warranty period, covered defective parts not subject to normal wear and tear or other exclusions will be repaired or replaced, at Alltrade's option. During the warranty period, Alltrade will be responsible for the return shipping charges. Alltrade's repair and/or replacement of any nonconforming item and/or part thereof shall constitute fulfillment of all obligations to the purchaser. Alltrade shall not be responsible or liable for any expense, including freight charges, or repairs made outside Alltrade's facility, unless expressly agreed to by Alltrade in writing. Under no circumstances shall Alltrade bear any responsibility for loss of the unit, loss of time or rental, inconvenience, commercial loss or consequential damages.

Exclusions

This warranty does not cover parts damaged due to normal wear, abnormal conditions, misapplication, misuse, abuse, accidents, operation at other than recommended pressures or temperatures, improper storage or freight damage. Parts damaged or worn by operation in dusty environments are not warranted. Failure to follow recommended operating and maintenance procedures also voids warranty.

DAMAGE TO THE PRODUCT RESULTING FROM TAMPERING, ACCIDENT, ABUSE, NEGLIGENCE, FAILURE TO FOLLOW INSTRUCTIONS, UNAUTHORIZED REPAIRS OR ALTERATIONS, DAMAGE WHILE IN TRANSIT TO OUR SERVICE FACILITY, USE OF UNAPPROVED OR IMPROPER ATTACHMENTS OR ACCESSORIES, COMMERCIAL AND RENTAL APPLICATIONS OR OTHER CAUSES UNRELATED TO PROBLEMS WITH MATERIAL OR WORKMANSHIP ARE NOT COVERED BY THIS WARRANTY.

Alltrade will not be liable for the following: labor charges, loss or damage resulting from improper operation, maintenance or repairs made by other persons; pre-delivery services such as assembly, oil or lubricants, and adjustment; maintenance services that are normally required to maintain the product.

The use of other than genuine Alltrade Repair Parts will void warranty.

Warranty Disclaimers

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Limitations on Warranty Disclaimers

Some states do not allow limitations on how long an implied warranty lasts and some states do not allow the exclusion or limitation of the incidental or consequential damages, so part or all of the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If your product is not covered by this warranty, please call our Customer Service Department toll free at 1-800-590-3723 for general repair information and charges.